

Application No.: 10/686800  
Docket No.: AD6651USCNT

Page 2

**Amendments to Claims**

Claim 1 (Cancel)  
Claim 2 (Cancel)  
Claim 3 (Cancel)  
Claim 4 (Cancel)  
Claim 5 (Cancel)  
Claim 6 (Cancel)  
Claim 7 (Cancel)  
Claim 8 (Cancel)  
Claim 9 (Cancel)  
Claim 10 (Cancel)

11. (New) A method of laser welding, comprising the steps of :

preparing a first molded article of a first thermoplastic resin composition comprising a thermoplastic resin and a 1:2 metallic azo complex dye, which composition is transparent to a laser beam, and a second molded article of a second thermoplastic resin composition that is opaque to the laser beam,

positioning said first molded article and said second molded article in contact with each other, and

transmitting a predetermined amount of laser beam energy focused on the area of contact through the first article to the second article.

12. (New) A method of laser welding, comprising the steps of :

preparing a first molded article of a first thermoplastic resin composition comprising a thermoplastic resin and a black colorant, which composition is transparent to a laser beam, and a second molded article of a second thermoplastic resin composition that is opaque to the laser beam,

positioning said first molded article and said second molded article in contact with each other, and

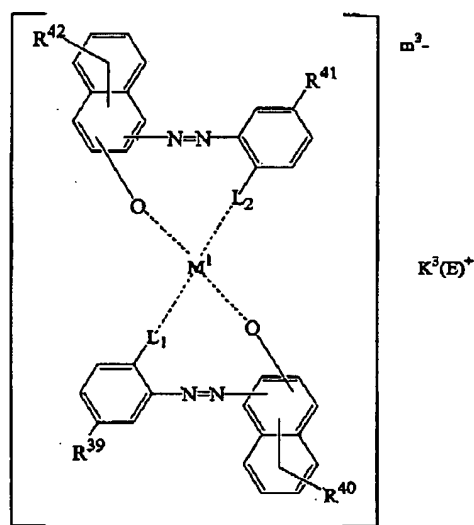
transmitting a predetermined amount of laser beam energy focused on the area of contact through the first article to the second article,

wherein the black colorant is at least one 1:2 metallic azo complex dye of the following formulas:

the formula [I]

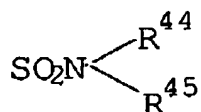
Application No.: 10/686800  
Docket No.: AD6651USCNT

Page 3



—[I]

wherein  $R^{39}$ ,  $R^{41}$ , which may be the same or different, are Cl,

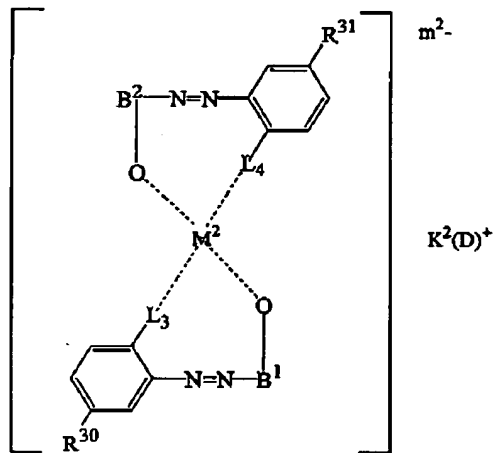


, or  $SO_2R^{43}$ ,  $R^{44}$ ,  $R^{45}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C4 alkyl,  $R^{43}$  is linear or branched C1-C4 alkyl,  $R^{40}$ ,  $R^{42}$ , which may be the same or different, are hydrogen, linear or branched C1-C18 alkyl group, linear or branched C2-C18 alkenyl group, sulfonamide group, carboxyl group, mesyl group, hydroxyl group, C1-C18 alkoxy group, acethylamino group, benzoylamino group, a halogen atom or  $-CONH-R^{46}$ ,  $R^{46}$  is functional group selected from unsubstituted or substituted linear or branched C1-C18 alkyl or unsubstituted substituted C6-C18 aryl group,  $L_1$  and  $L_2$  are independently O or COO,  $(E)^+$  are  $H^+$ ; cation of alkali metal, ammonium ion, cations of organic amine including aliphatic primary, secondary and ternary amines, quaternary ammonium ion,  $K^3$  is an integer,  $m^3$  is 0, 1 or 2,  $M^1$  is a metal having coordination numbers of from 2 to 4,

Application No.: 10/686800  
Docket No.: AD6651USCNT

Page 4

the formula [II]

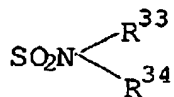


—[II]

Application No.: 10/686800  
 Docket No.: AD6651USCNT

Page 5

wherein  $R^{30}$  and  $R^{31}$ , which may be the same or different, are Cl,



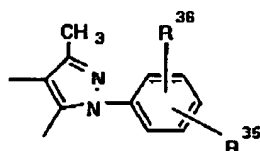
$\text{SO}_2R^{32}$ , or H,

$R^{33}$  and  $R^{34}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C4alkyl,

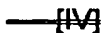
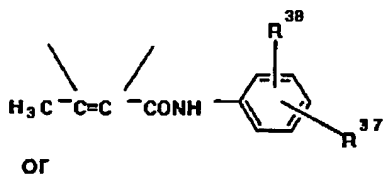
$R^{32}$  is linear or branched C1-C4 alkyl,  $L_3$  and  $L_4$  are independently O or COO,  $(D)^+$  is hydrogen ion, cation of alkali metals, ammonium ion, cations of organic amine including aliphatic primary, secondary and tertiary amines, quaternary ammonium ion,

$K^2$  is an integer,  $m^2$  is 0, 1 or 2,

$M^2$  is metals having coordination numbers of from 2 to 4,



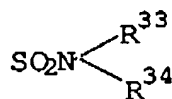
B is represented by formula



Application No.: 10/686800  
Docket No.: AD6651USCNT

Page 6

wherein  $R^{35}$  and  $R^{37}$ , which may be the same or different, are Cl,

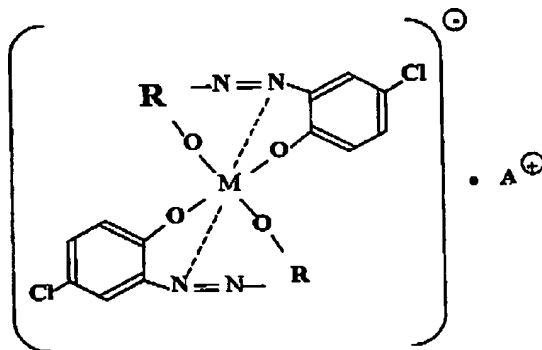


,  $\text{SO}_2R^{32}$ , or H,

$R^{33}$  and  $R^{34}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C4 alkyl, and  $R^{36}$  and  $R^{38}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C18 alkyl, carboxyl, hydroxyl, C1-C18 alkoxy, amino or halogen atoms.

13. (New) The method of Claim 11, wherein said 1:2 metallic azo complex dye is selected from the group consisting of:

formula (1)

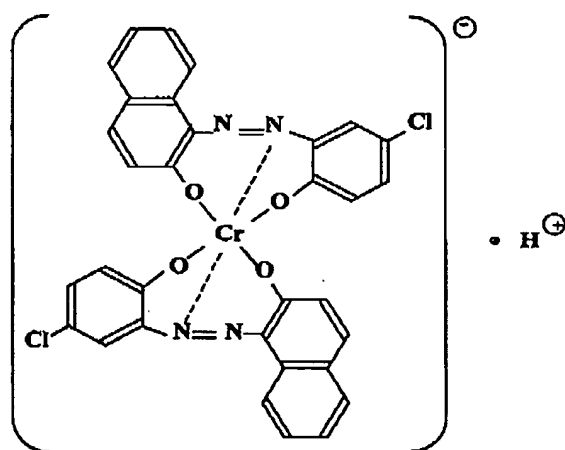


Application No.: 10/686800  
Docket No.: AD6651USCNT

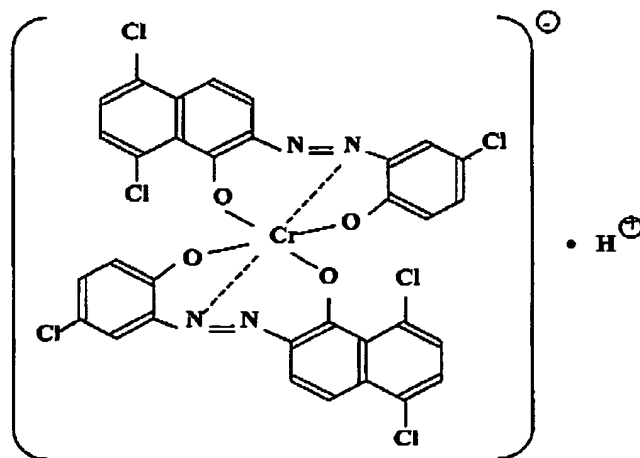
Page 7

wherein R is a residual group of a coupling agent, M is divalent or trivalent metal, and A is hydrogen, aliphatic amine with 4 to 18 carbon atoms, or alkylene oxide added amine;

or formula (2)



or formula (3)



Application No.: 10/686800  
Docket No.: AD6651USCNT

Page 8

14. (New) The method of Claim 12, wherein said 1:2 metallic azo complex dye is selected from formula (2) or formula (3).
15. (New) The method of Claim 12, wherein said 1:2 metallic azo complex dye is present in an amount of from 0.01 to 1% by weight based upon the total weight of the composition.
16. (New) The method of Claim 11, wherein the first thermoplastic resin composition and/or the second thermoplastic resin composition further comprises glass fiber or glass flake.
17. (New) The method of Claim 11, wherein the first thermoplastic resin composition and/or second thermoplastic resin composition comprises a polyamide resin.
18. (New) The method of Claim 11, wherein the first thermoplastic resin composition and/or second thermoplastic resin composition comprises a polyamide copolymer.
19. (New) The method of Claim 11, wherein the first thermoplastic resin composition and/or second thermoplastic resin composition comprises a blend of polyamide resins.
20. (New) The method of Claim 12, wherein  $M^1$  is trivalent Cr, Fe, or Cu.
21. (New) The method of Claim 12, wherein  $M^2$  is Zn, Sr, Cr, Al, Ti, Fe, Zr, Ni, Co, Mn, B, or Si.
22. (New) The method of Claim 12, wherein  $M^2$  is trivalent Cr, Co, Cu, Ni, or Al.
23. (New) A shaped article formed by the method of Claim 11.